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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/064,495	07/22/2002	Michael C. Murray	08CE7421-1	4852	
23413 75	590 01/25/2005		EXAM	EXAMINER	
CANTOR COLBURN, LLP			VIJAYAKUMAR, KALLAMBELLA M		
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER	
	•		1751		

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Asticus Com	10/064,495	MURRAY, MICHAEL C.			
Office Action Summary	Examiner	Art Unit			
	Kallambella Vijayakumar	1751			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti- within the statutory minimum of thirty (30) da rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely, n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18 No.	ovember 2004.	-			
2a)⊠ This action is FINAL . 2b)□ This	☐ This action is FINAL. 2b)☐ This action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-19</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 		ı)-(d) or (f).			
2. Certified copies of the priority documents		ion No			
3.☐ Copies of the certified copies of the prior	• •				
application from the International Bureau	•				
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.			
Attachment(s)	<u>.</u>				
1) ⊠ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) B) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ate Patent Application (PTO-152)			
Paper No(s)/Mail Date <u>11/12/2004</u> .	6) Other:	•			

Detailed Action

Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection. Claims 1-19 are pending with the application.

The information disclosure statement (IDS) submitted on 11/12/2004 is in compliance with the provisions of 37 CFR 1.97, and accordingly, the examiner has considered the information disclosure statement.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-2, 6 and 13-17 rejected under 35 U.S.C. 102(b) as being anticipated by Campbell (US 5,360,861).

Campbell discloses a molding thermoplastic polymer composite comprising:

- (A) a polyester-carbonate resin that would meet the limitation of the polycarbonate in claim-1 (Col-1, Ln 64-68),
- (B) 0.1 to 20% by wt. of a fibrous reinforcing agent such as glass fibers (Col-6, Ln 3-5)

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(C) 0.1 to 20 wt.% organopolysiloxane-polycarbonate block copolymers as impact-modifiers that

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would meet the limitation of claims 1 and 6 (Col-11, Ln 50-53).

(D) antistatic agents that would meet limitation of claim-1 (Col-12, Ln 36-39) and

(E) 0.01 to about 20 wt.% of the aromatic sulfonate fire-retarding agents would meet the

limitation of claims 1 and 13 (Col-14, Ln 1-4).

The antistatic property of the polymer per the claim-1 would be inherent due to the

presence of the antistatic agent/s (D) in the composition. The glass fibers would further meet the

limitation of flame retardants, and the composition for samples 6-8 in Table-1 thereby would

meet the limitation of the component ratios in claims 1-2, 6 and 13 (Col-16, Tbl-1). The

flammability rating for the polymers ranged from V0, V1 and V2, and the flammability test data

along with the notched izod values for the samples 6-8 would meet limitation of these values in

the claims 13-16 (Col-14, Ln 49-60, Col-16, Tbl-1), and the surface resistivity values for the

polycarbonate polymers in these claims would be inherent because the composition and the

constituents of the polymers by Campbell are identical to those by the applicants in the instant

claims. The test sample bars would meet the limitation of an article in claim-17 (Col-14, Ln 55).

All the limitations of the instant claims are met.

The reference is anticipatory.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kataoka (JP 11-199,767) in view of Campbell (US 5,360,861) or Campbell et al (US 6,221,939) or Willaim et al (GB 2 043083).

Kataoka discloses a flame-retardant/antistatic-resin composition comprising of:

- (A). 50-80% aromatic polycarbonate that would meet the limitation of polycarbonate and its ratio in claims-1, 2, 18 and 19 (Abstract, Section 0011),
- (B). 4.5-15% polyetheresteramide would meet the limitation of antistatic agent and its ratio in claims 1, 3, 4, 18 and 19,
- (C). 3-12% phosphoric ester would meet the limitation of flame-retardant and its ratio in claims 1, 7-9, 13, and 19 (Sec. 0025-0030),

(D) 1-25% inorganic fillers,

(E) 0.5-8 % rubbery polymer/s such as copolymers of organosiloxane, methyl methacrylate and

methyl acrylate would meet the limitation of impact modifier and its ratio in claims 5-6 (Section

0038-0040) and

(F). 0.05-1.5 % PTFE fibrils.

The polycarbonate composite resins further exhibited a V-0 rating for flammability in the UL-94

protocol and had a surface resistance of 1x10¹⁴ ohms or less per the limitation of claims 14-16

(Abstract, Sections:0009, Table-1; Sec 0048). However the polycarbonate compositions of

Kataoka et al are similar to those by the applicants, and IZOD values per the claims 13-16 would

have been obvious. With reference to the method claim-19, Kataoka discloses making the Flame-

retardant antistatic polycarbonate composition in an extruder using the components that are

similar to those claimed by the applicants (Sec 0046).

Kataoka discloses composition of the polycarbonate antistatic composition having all the

components in appropriate ratios per the limitations of the instant claims except (a)-the use of

polycarbonate-polysiloxane copolymer as impact modifier per claims-1, 18 and 19; (b)-addition

phosphate ester flame retardants per the claims 8, 11-12 and 18; (c)- phosphoramides per claim

10 per the limitations of instant claims by the applicants.

In the analogous art, Campbell (US-861) teaches the composition and making of flame-

resistant polycarbonate compositions comprising about 0.1 to 20 wt% organopolysiloxane-

polycarbonate block copolymers as impact-modifiers per the limitations of claims 1, 18 and 19,

and its benefits (Col-11, Ln 50-53). Campbell further teaches the use of polyacrylic copolymers

as impact modifiers in the polycarbonate compositions (Col-8, Ln 41-46).

In the analogous art, Campbell et al (US-939) teach the composition of flame-resistant polycarbonate, composition comprising of flame retardants such as a phosphoramide per instant claim 10 (Col-7, Ln 29-50), organic phosphate esters (Abstract, Col-12, Ln 23-44), N,N'-bis-[di-(2,6-xylyl)phosphoryl]piperazine (XPP), resorcinol bis(diphenyl phosphate) (RDP) and bisphenol A bis(diphenyl phosphate) (BPADP)) per the instant claims 11-12 and 18 (Col-13, Ln 54-64; Col-14, Ln 21-23; Col-15, Example-1).

In the analogous art, William et al teach the use of various organo-phosphorus flame retardants in the formulation of thermoplastic based flame-retardant compositions, wherein the flame retardants included bi and poly-functional phosphate esters, and triphenyl phosphate per the limitations of instant claims 7-9 and 19 (Abstract, page-1, Line 44 to Page-2, Line-48; Pages-4, Table-1; Page-8, Claims-1-5).

It would have been obvious to one with ordinary skill in the art to modify the antistatic/flame-retardant polycarbonate compositions of Kataoka by including organopolysiloxane-polycarbonate copolymer as the impact modifier per the teachings of Campbell (US-861) to benefit from improved resistance to the oxidation and elastic properties because Campbell teaches the addition of the polysiloxane-polycarbonate copolymer and acrylate copolymers as impact modifiers for polycarbonates in the analogous art, and further combine with the teachings of either Campbell (US-939) or William (GB-083) by using phosphoramides and/or organic phosphates flame retardants to benefit from enhanced flammability resistance properties per their teachings, and with the expectation of reasonable success because all the teachings are in the analogous art.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kallambella Vijayakumar whose telephone number is 571-272-1324. The examiner can normally be reached on M-Th, 07.00 - 16.30 hrs, Alt. Fri: 07.00-15.30 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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KMV

January 14, 2005.

Mark Kopec Primary Examiner